Gagandeep Singh

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EDUCATION

Indraprastha Institute of Information Technology, Delhi New Delhi, Delhi
Bachelor of Technology in Computer Science and Engineering *August 2016 – September 2020*

Adarsh Public School New Delhi, Delhi
High School *April 2015 – May 2016*

EXPERIENCE

Software Engineer August 2020 – Present
Intellicus Technologies *Noida, India*
- Working on creating multi tenant SAAS REST API using Jersey(JavaEE)
- Worked on query processing and query filtering optimizations and came up with different data structures to achieve better performance.
- Improved query processing time by 10%.

Undergraduate Researcher January 2019 – February 2020
Data Science Lab, IIIT Delhi *New Delhi, Delhi*
- Working on finding frequent patterns in spacial domain.
- Parallelize implementation of pattern mining using Apache Spark.
- Built a dashboard to upload and find patterns in huge amounts of data.

Software Engineering Intern May 2018 – July 2018
Camp K-12 *Gurgaon, India*
- Worked in building an online video portal for interactive learning.
- Developing and maintaining front end using React.js.
- Teaching students basics of programming in JAVA and Android and worked remotely on android development.

PROJECTS

Parking System | *Jax-RS, JavaEE, PostgresSQL, TestNG* September 2020 – October 2020
- Developed a full-stack web application using with Jersey serving a REST API to multiple tenants.
- Implemented schema based multitenancy for the database design for a parking system.
- Used TestNG for unit testing of the entire application.

Delhi Riots Tweet Analysis | *Python, Scikit-Learn, Matplotlib, Git* March 2020 – April 2020
- Used **Tweepy API** to collect tweets from Twitter which talked about Delhi Riots.
- Used TFIDF model to predict the topic discussed in the tweet.
- Used Naive-Bayes Classifier to predict if a tweet is a rumour of not, 86% precision was achieved.
- 56% of tweets were found to be fake, thus spreading false information.

Departmental Store | *Ruby on Rails, Bootstrap, CSS, HTML, Git* Aug 2018 – Nov 2018
- Created an e-commerce website selling daily item using **Ruby on Rails**.
- The website is a multi tenant SAAS application to cater multiple shop owners.
- Added user based features like allowing user to download PDF copy of the receipt.
- Developed frontend of the entire app using Bootstrap and CSS

Spam Ham E-mail Classifier | *Python, Scikit-Learn, Flask, Git* May 2019 – July 2019
- Predicting whether an e-mail is ham or spam using **scikit-learn** library in python.
- Preprocessing of text was done using **nltk** library.
- Predictions were done using the naive-bayes classifier , 97% precision was achieved.
- The webapp was built in **flask** is deployed on heroku.

Chain Reaction | *Java, Java-FX, Git* Sept 2017 – Nov 2017
- Created desktop replication of the game Chain Reaction.
- Developed an intelligent bot to play the game against you, which could predict your moves and act accordingly.
- The app was built with JAVA and JavaFx framework implementing OOP concepts.

Technical Skills

Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, Ruby, Javascript
Frameworks: React.JS, Node.js, Flask, JUnit, TestNG, Jax-RS, Java-FX, Ajax, Jquery, Apache Spark
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV

Achievements

Academic

- **Ranked 341** in Google Kickstart 2020 Round E
- **Ranked 37** in online hackathon based on Data Science and Machine Learning organised by ZS Associates
- **JEE Mains**: Ranked among top **1%** of 1.2 million students
- **IMO**: Ranked **4th** in state at IMO 2012

Miscellaneous

- Represented Delhi state team in Football Nationals
- Represented IIT Delhi university at sports fest for Football and Power-lifting. Placed second at Spardha 2019(IIT BHU sports fest)
- Represented high school at Football and Roller Skating state competitions

Coding Profiles

Codeforces: gagan_6730
Codechef: gagan6730
Leetcode: gagan_6730
Github: Gagan6730